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FIG.1

i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	39.5nm	13
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	6nm    4E18/cm <sup>3</sup>	12
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	3nm	11
i-GaAs	5.5nm	10
i-In <sub>0.30</sub> Ga <sub>0.70</sub> As	7.5nm	9
i-GaAs	5.5nm	8
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	3nm	7
n-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	4nm    3E18/cm <sup>3</sup>	6
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	200nm	5
i-GaAs	250nm	4
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As	250nm	3
i-GaAs	200nm	2
GaAs	SUBSTRATE	1

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## FIG.2

i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	39.5nm	33
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	6nm    4E18/cm <sup>3</sup>	32
i-In <sub>0.483</sub> Ga <sub>0.517</sub> P	3nm	31
i-GaAs	5.5nm	30
i-In <sub>0.30</sub> Ga <sub>0.70</sub> As	7.5nm	29
i-GaAs	5.5nm	28
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	3nm	27
n-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	4nm    3E18/cm <sup>3</sup>	26
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	200nm	25
i-GaAs	250nm	24
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As	250nm	23
i-GaAs	200nm	22
GaAs	SUBSTRATE	21

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FIG.3

i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	39.5nm	53
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	6nm    4E18/cm <sup>3</sup>	52
i-In <sub>0.483</sub> Ga <sub>0.517</sub> P	3nm	51
i-GaAs	5.5nm	50
i-In <sub>0.30</sub> Ga <sub>0.70</sub> As	7.5nm	49
i-GaAs	5.5nm	48
i-In <sub>0.483</sub> Ga <sub>0.517</sub> P	3nm	47
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	4nm    3E18/cm <sup>3</sup>	46
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	200nm	45
i-GaAs	250nm	44
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As	250nm	43
i-GaAs	200nm	42
GaAs	SUBSTRATE	41

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**FIG.4**

i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	39.5nm	73
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	6nm    4E18/cm <sup>3</sup>	72
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	3nm	71
i-GaAs	2nm	70
i-In <sub>0.19</sub> Ga <sub>0.81</sub> As	14nm	69
i-GaAs	2nm	68
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	3nm	67
n-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	4nm    3E18/cm <sup>3</sup>	66
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	200nm	65
i-GaAs	250nm	64
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As	250nm	63
i-GaAs	200nm	62
GaAs	SUBSTRATE	61

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## FIG.5

i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	39.5nm	93
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	6nm    4E18/cm <sup>3</sup>	92
i-In <sub>0.483</sub> Ga <sub>0.517</sub> P	3nm	91
i-GaAs	2nm	90
i-In <sub>0.19</sub> Ga <sub>0.81</sub> As	14nm	89
i-GaAs	2nm	88
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	3nm	87
n-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	4nm    3E18/cm <sup>3</sup>	86
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	200nm	85
i-GaAs	250nm	84
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As	250nm	83
i-GaAs	200nm	82
GaAs	SUBSTRATE	81

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## FIG.6

i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	39.5nm	113
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	6nm    4E18/cm <sup>3</sup>	112
i-In <sub>0.483</sub> Ga <sub>0.517</sub> P	3nm	111
i-GaAs	2nm	110
i-In <sub>0.19</sub> Ga <sub>0.81</sub> As	14nm	109
i-GaAs	2nm	108
i-In <sub>0.483</sub> Ga <sub>0.517</sub> P	3nm	107
n-In <sub>0.483</sub> Ga <sub>0.517</sub> P	4nm    3E18/cm <sup>3</sup>	106
i-Al <sub>0.20</sub> Ga <sub>0.80</sub> As	200nm	105
i-GaAs	250nm	104
i-Al <sub>0.25</sub> Ga <sub>0.75</sub> As	250nm	103
i-GaAs	200nm	102
GaAs	SUBSTRATE	101